Computing

Archives for Informatics and Numerical Computation
Archiv für Informatik und Numerik

Editorial Board / Herausgeber-Kollegium

R. Albrecht, Innsbruck
R. L. Constable, Ithaca, NY
W. Händler, Erlangen
W. Knödel, Stuttgart
W. L. Miranker, Yorktown Heights, NY
H. J. Stetter, Wien
Hj. Wacker, Linz

Advisory Board / Fachbeirat

G. Alefeld, Karlsruhe
R. Ansorge, Hamburg
H. Brunner, Fribourg
R. E. Burkard, Graz
L. Collatz, Hamburg
W. H. Enright, Toronto
A. Feldstein, Tempe, AZ
M. Grötschel, Augsburg
J. R. Mühlbacher, Linz
H. Neunzert, Kaiserslautern
K. Nickel, Freiburg i. Br.
J. W. Schmidt, Dresden
H. J. Schneider, Erlangen
T. G. Szymanski, Murray Hill, NJ
G. Tinhofer, München
W. Törnig, Darmstadt

Editorial Assistants / Redaktionssekretäre

J. Schneid and E. Weinmüller, Wien

Vol 37, 1986

ISSN 0010-485X

Springer-Verlag Wien New York

The exclusive copyright for all languages and countries, including the right for photomechanical and any other reproductions including microform is transferred to the publisher.

Alle Rechte, einschließlich das der Übersetzung in fremde Sprachen und das der photomechanischen Wiedergabe oder einer sonstigen Vervielfältigung, auch in Mikroform, vorbehalten.

© 1986 by Springer-Verlag/Wien

Contents / Inhalt

Contributed Papers / Originalarbeiten

Brewster, M. E., Kannan, R.: A Computational Process for Choosing the Relaxation Parameter in Nonlinear SOR 19– 29

Devroye, L.: Grid Methods in Simulation and Random Variate Generation 71– 84

Ecker, A., Poch, G.: Check Character Systems 277–301

Enright, W. H., Muir, P. H.: Efficient Classes of Runge Kutta Methods for Two-Point Boundary Value Problems 315–334

Er, M. C.: Performance Evaluations of Recursive and Iterative Algorithms for the Towers of Hanoi Problem 93–102

Galardi, A., s. Wimp, J.

van der Houwen, P. J., Sommeijer, B. P., Strehmel, K., Weiner, R.: On the Numerical Integration of Second-Order Initial Value Problems with a Periodic Forcing Function 195–218

Ishihara, K.: Explicit Monotone Iterations Providing Upper and Lower Bounds for Finite Element Solution with Nonlinear Radiation Boundary Conditions 137–149

Ishutkin, V. S., Schönefeld, K.: On the Globalization of Wilson-type Optimization Methods by Means of Generalized Reduced Gradient Methods 151–169

Kannan, R., s. Brewster, M. E.

Kern, W.: An Efficient Algorithm for Solving a Special Class of LP's 219–226

Kline, R., s. Wimp, J.

Krawczyk, R.: Properties of Interval Operators 227–245

Mario Martinez, J.: Solution of Nonlinear Systems of Equations by an Optimal Projection Method 59– 70

ter Maten, E. J. W.: Splitting Methods for Fourth Order Parabolic Partial Differential Equations 335–350

Monegato, G., Pennacchietti, V.: Quadrature for Prandtl's Integral Equation 31– 42

Moret, I.: On the Behaviour of Approximate Newton Methods ... 185–193

Muir, P. H., s. Enright, W. H.

Novacek, A.: Using Time Stamps for Storing and Addressing Extendible Arrays 303–313

Pennacchietti, V., s. Monegato, G.

Poch, G., s. Ecker, A.

Reichel, L.: A Method for Preconditioning Matrices Arising from Linear Integral Equations for Elliptic Boundary Value Problems .. 125–136

Reimer, M., Sündermann, B.: A Remez-type Algorithm for the Calculation of Extremal Fundamental Systems for Polynomial Spaces on the Sphere 43– 58

Rokne, J. G.: Low Complexity k-dimensional Centered Forms ... 247–253

Schönefeld, K., s. Ishutkin, V. S.

Sommeijer, B. P., s. van der Houwen, P. J.

Strehmel, K., s. van der Houwen, P. J.

Stummel, F.: Strict Optimal A Posteriori Error and Residual Bounds for Gaussian Elimination in Floating-Point Arithmetic 103–124

Sündermann, B., s. Reimer, M.

Weiner, R., s. van der Houwen, P. J.

Wimp, J., Kline, R., Galardi, A.: Algorithms Based on Difference Equations of Infinite Order and the Computation of Laplace-Type Integrals 1– 18

Short Communications / Kurze Mitteilungen

Acharya, B. P., Mohapatra, T.: Approximation of Double Integrals of Analytic Functions of Two Complex Variables..... 357–364

Anastasselou, E. G., s. Ioakimidis, N. I.

Bernstein, H. J., Goldstein, M.: Parallel Implementation of Bisection for the Calculation of Eigenvalues of Tridiagonal Symmetric Matrices 85– 91

Das, S. R., Lee, S. Y.: An Appraisal of the Performance of the MMSC Subgraph Generation Algorithm on a Cyber System 170/720 365–370

Goldstein, M., s. Bernstein, H. J.

Herzberger, J.: On the R-Order of Some Recurrences with Applications to Inclusion-Methods II 255–259

Hu, A. J.: Selection of the Optimum Uniform Partition Search ... 261–264

Ioakimidis, N. I., Anastasselou, E. G.: An Elementary Noniterative Quadrature-Type Method for the Numerical Solution of a Nonlinear Equitation..... 269–275

Krawczyk, R.: A Class of Interval-Newton-Operators..... 179–183

Lee, S. Y., s. Das, S. R.

Lu Tongxing: Solution of the Matrix Equation $AX-XB=C$ 351–355
Schönefeld, K.: A Note on a Globalization of Wilson-type Optimization Methods 171–178
Väliaho, H.: A Note on Locating Eigenvalues 265–267

Algorithm

Späth, H.: Clusterwise Linear Least Absolute Deviations Regression 371–378

Abstracted / Indexed in: Current Contents, SCI, ASCA, and ISI/COMPUMATH, ACM Information Center, Applied Mechanics Reviews, Mathematical Reviews.